

OPTICAL INTERNET PROTOCOL SWITCH AND METHOD THEREFOR

ABSTRACT

An optical switch for a network having a plurality of nodes, includes a switch coupled to communications links used for input and output in which a plurality of wavelengths are used to carry traffic on a communications link, and a controller, coupled to the switch, for controlling the operation of the switch by implementing a routing protocol, and implementing a labeling protocol to associate a wavelength with a route table destination. The controller controls the switch to direct the various wavelengths of traffic from an input link to an appropriate output link as determined by the routing protocol and the labeling protocol.